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INTER OFFICE MEMORANDUM

THE METROPOLITA

STRICT OF

DEPARTMENT:

RESEARC:

Monitoring

**DATE:** March 8, 1984

TO:

Mr. Frank Dalton Chief Engineer

FROM:

Cecil Lue-Hing

SUBJECT: City of Chicago, 103rd Street and Doty Avenue Site Results of Monitoring Well Sampling for First Quarter 1984

Samples were taken from the monitoring wells at the 103rd Street and Doty Avenue site on January 26 for the first quarter of 1984 well water sampling requirement as specified by IEPA.

The analytical results are reported on forms provided by IEPA. Well locations are shown on Figure 1. This site is identified by IEPA as location No. 03160011.

Also included are analyses of all sludge delivered to the Doty site through 1983. Table 1 contains quarterly mean analysis of sludge delivered in 1982, and Table 2 contains quarterly mean analysis of sludge delivered in 1983.

This report should be directed to Mr. Macaitis for inclusion in reports to IEPA for this site.

Cecil Lue-Hing

Director

Research and Development

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CLH:JG:ns

Attachment

EPA Region 5 Records Ctr.

## THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

TABLE 1

MEAN QUARTERLY ANALYSIS OF SLUDGE SHIPPED TO THE 103rd STREET AND DOTY AVENUE LANDFILL CLOSURE SITE IN CHICAGO DURING 1982

	1 9 8 2				
	January * Through March	April Through June	July Through September	October Through December	
Number of Samples pH		25 7.7	24 7.7	10 7.8	
Total Solids Total Volatile Solids		30.5 35.8	40.2 33.5	38.1 24.8	
	mg/dry kg				
N-Kjeldahl N-NH3		24,900 5,600	20,200 4,600	18,500 4,900	
Total P Zn Cd Cu Cr		30,400 4,723 328 1,934 3,712	29,500 4,804 256 1,275 2,972	17,800 5,515 348 1,653 2,928	
Fe Ni Pb K Na		39,800 388 1,380 1,526 994	37,100 354 1,148 1,610 877	32,300 344 1,258 1,131 678	
Ca Mg Mn Al Hg		58,200 19,400 508 11,100 7,47	56,200 21,100 479 10,900 5.16	55,400 19,600 586 9,200 7.10	

<sup>\*</sup>No shipments were made during the first quarter of 1982.

## THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

TABLE 2

MEAN QUARTERLY ANALYSIS OF SLUDGE SHIPPED TO THE 103rd STREET AND DOTY AVENUE LANDFILL CLOSURE SITE IN CHICAGO DURING 1983

	1 9 8 3			
	January * Through March	April Through June	July Through September	October Through December
Number of Samples pH		5 7.6	21 7.8	23 7.6
Total Solids Total Volatile Solids		23.1 38.4	31.3 31.2	27.6 32.5
	mg/dry kg			
N-Kjeldahl N-NH <sub>3</sub>		22,600 5,600	19,800	22,400 3,600
Total P Zn Cd Cu Cr		17,000 5,158 292 1,654 2,681	22,000 4,646 277 1,557 2,363	23,000 4,969 292 1,602 2,359
Fe Ni Pb K Na		39,100 404 1,338 1,468 851	36,100 319 1,294 1,084 667	32,300 334 1,333 1,162 726
Ca Mg Mn Al Hg		46,600 13,400 385 9,100 6.24	58,400 20,500 404 8,500 8.44	63,600 24,600 388 8,400 8.31

<sup>\*</sup>No shipments were made during the first quarter of 1983.